

KS5 A Level Further Maths

Pure

Discrete

Statistics

Y112 Pure

Autumn Term

Complex numbers.	Geometric representation of complex numbers.	Matrices: Calculations and determinants.	Matrices: Transformations.	Roots of polynomials.	Conic graphs.	Rational functions.
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Spring Term

Further application of vectors.	Series.	Polar coordinates.	Further calculus.	Proof by induction.
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Summer Term

Hyperbolic functions	Further graphs and inequalities.	Further transformations.	Further Vectors.	Further Matrices.
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Y112 Applied

Autumn Term

Graphs.	Networks.	Network flows.	Critical path analysis.	DRVs.	Game theory.
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Spring Term

Linear programming.	Binary operations.	Chi squared.	Poisson distribution.	CRVs.
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Summer Term

Confidence intervals.	Further graphs.	Further networks.	Further network flows.
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Y13 Pure

Autumn Term

Further complex numbers: powers and roots.

Further complex numbers: trigonometry.

Further hyperbolic functions.

Further calculus.

Further polar coordinates.

Maclaurin series and limits.

Spring Term

Differential equations.

Applications of differential equations.

Numerical methods.

Exam preparation and revision.

Y13 Applied

Autumn Term

Further critical path analysis.

Further DRVs.

Type 1 and 2 errors.

Further CRVs

Further CRVs

Further chi squared.

Spring Term

Exponential distribution.

t distribution.

Further linear programming.

Further game theory.

Further binary operations.

Exam preparation and revision.